Alberta Health

Alberta Notifiable Disease

2017 Summary

August 2018

Alberta Government

Government of Alberta. Alberta *Notifiable Disease 2017 Summary*. Edmonton: Government of Alberta, 2018

For more information contact:

Analytics and Performance Reporting Branch
Health Standards, Quality and Performance
Alberta Health
PO Box 1360 Stn Main
Edmonton, AB T5J 2N3

Email: Health.Surveillance@gov.ab.ca
Website: www.health.alberta.ca

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ISBN 978-1-4601-4142-7

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In Alberta, the requirements for reporting communicable diseases are mandated by the *Communicable Diseases Regulation*, under the *Public Health Act*. Notifiable diseases are reportable within 48 hours or by the fastest means possible to the Medical Officer of Health (MOH). Where a communicable disease is designated as requiring notification by the fastest means possible, the MOH and Chief Medical Officer of Health are immediately notified by direct voice communication. Alberta Health participates in the collection, analysis and interpretation of communicable disease data to assist the Chief Medical Officer of Health in fulfilling the duties prescribed in the *Public Health Act*, namely, Section 14(1), Section 14(4), Section 26 and Section 27(1). This summary highlights key findings on the incidence of selected communicable diseases in 2017. Additional information is available on Alberta Health's Interactive Health Data Application (IHDA)[1].

Key Findings

- There were two cases of measles reported in Alberta compared with one case reported in the previous year. In Canada, 45 cases of measles were reported in 2017, of which three importation events led to transmission within Canada [2]. Vaccination coverage of two doses of measles, mumps and rubella by age 7 was 79 per cent in Alberta [1].

- A large increase in the number of mumps (n = 113) and pertussis (n = 1,054) cases were reported. The increase in cases was largely linked to two separate outbreaks of mumps [3] in the South and Edmonton zones and one outbreak of pertussis [4] in the South zone. The national target coverage rates for diphtheria, tetanus, pertussis, polio, Hib by age 2 for 2017-18 was 97 per cent [5], but Alberta's coverage rate only reached 77 per cent [1].

- Cases of invasive Group A streptococcal disease continue to rise with an increase of 31 per cent (n = 439) from the previous year. The incidence rate of cases in Alberta is 10 cases per 100,000 population. The majority of cases occurred in Edmonton and Calgary, but the highest incidence rate was in the South zone (15 cases per 100,000 population)[1].

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Table 1 Total number of selected notifiable diseases reported in Alberta, 2012-2017

Notifiable Disease (ICD-9 Code)	2012	2013	2014	2015	2016	2017
Acute Flaccid Paralysis *(0459)*	6	8	10	5	5	2
Amoebiasis *(006)*	71	82	74	60	52	38
Botulism *(0051)*	0	1	0	1	1	0
Brucellosis *(023)*	0	2	2	0	2	2
Campylobacteriosis *(0084)*	936	945	978	912	1,017	1,034
Chlamydial Infection *(099.0)*	15,396	15,711	16,226	17,267	16,357	16,584
Cholera (O1, O139) *(001)*	0	0	0	0	0	0
Congenital cytomegalovirus (7711)	4	9	13	11	7	15
Congenital toxoplasmosis (7712)	0	0	1	1	1	0
Creutzfeldt-Jakob Disease - Classic *(0461)*	10	4	6	7	9	12
Cryptococcus *(gatti)*(117.5)	0	0	1	1	0	1
Cryptosporidiosis *(0078)*	203	163	139	161	182	127
Cyclosporiasis *(0079)*	6	4	6	8	23	4
Dengue Fever *(061)*	47	68	53	59	59	28
Diphtheria, Toxigenic - Cutaneous (032.85)	0	0	0	0	0	2
E. Coli Verotoxigenic Infection (includes O157:H7) *(0080)*	97	109	220	121	145	138
Giardiasis *(007)*	441	418	439	384	410	346
Gonococcal Infection *(098)*	2,045	1,954	1,853	3,367	3,711	4,758
Haemophilus Influenzae - Non-serotype b, Invasive *(0384)*	55	54	62	63	77	51
Haemophilus Influenzae - Serotype b, Invasive *(3200)*	3	1	1	1	0	1
Hantavirus Pulmonary Syndrome *(0786)*	4	8	5	4	2	3
Hemolytic Uremic Syndrome *(2831)*	2	5	10	3	11	16
Hepatitis A *(0700)*	24	26	27	34	57	41
Hepatitis B *(0702) (acute cases)*	23	26	10	18	20	22
Hepatitis B (0702) *(chronic carriers)**	691	825	842	788	827	743
Hepatitis B (0702) *(unknown carrier status)**	0	3	7	2	2	2
Hepatitis C *(0708) (acute cases)*	0	140	147	95	147	130
Hepatitis C *(0708) (chronic carriers)**	1,218	1,113	1,249	1,381	1,502	1,335
Hepatitis C *(0708) (unknown carrier status)**	0	4	13	18	19	11
Hepatitis E (070.53)	2	4	6	4	14	11
Histoplasmosis (115.9)	0	3	2	2	3	6
Human Immunodeficiency Virus (HIV) *(0421)*	240	259	281	231	285	283
Influenza, seasonal A and B (487)	2,196	2,909	5,829	2,046	6,932	7,957
Jamestown Canyon Virus *(062.51)*	1	2	0	5	2	1
Legionellosis *(4828)*	22	13	5	6	7	13
Leprosy *(030)*	2	0	0	3	1	0
Leptospirosis (100)	0	0	2	1	1	1
Listeriosis (including congenital)*(027)*	5	5	10	6	8	5
Lyme Disease *(087)*	8	19	10	14	10	13
Malaria *(084)*	83	72	73	100	106	82

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Notifiable Disease (ICD-9 Code)	2012	2013	2014	2015	2016	2017
Measles *(055)*	1	44	29	0	1	2
Meningococcal Disease, Invasive *(036)*	16	13	9	10	8	8
Muco-Purulent Cervicitis *(616.0)*	307	283	293	328	303	276
Mumps *(072)*	6	5	8	4	8	113
Neonatal Herpes Simplex Infection (054)	4	5	1	2	3	2
Non-Gonococcal Urethritis *(099.4)*	1,470	1,554	1,623	1,668	1,484	1,806
Paratyphoid Fever *(0029)*	11	8	12	12	5	9
Pertussis *(033)*	332	315	383	628	337	1,054
Pneumococcal Disease, Invasive *(3201)*	386	350	379	461	473	453
Psittacosis (073);	0	0	0	0	0	0
Q Fever *(083)*	1	2	0	2	3	2
Rabies (071)	0	0	0	0	0	0
Rare or emerging communicable disease (777)	1	0	0	0	0	6
Rickettsial Infections (e.g. Rocky Mountain Spotted Fever)*(082)*	0	0	1	1	0	0
Rubella (includes congenital)(056)	0	0	0	0	0	0
Salmonellosis *(003)*	840	815	1,066	1,198	1,145	1,071
Shellfish poisoning - including paralytic and amnesic (988.0)	0	0	0	0	0	1
Shigellosis *(004)*	222	61	105	99	74	87
Snowshoe Hare Virus *(062.52)*	0	1	0	1	0	1
Streptococcal Disease-Group A, Invasive *(034)*	244	267	265	302	335	439
Syphilis, Congenital *(090)*	0	0	1	0	0	4
Syphilis, Infectious (Primary, secondary and early latent) (091)	129	128	161	369	422	535
Syphilis, Non-infectious (Late latent)(096)	241	229	258	231	227	198
Tetanus *(037)*	1	0	0	2	1	0
Toxic Shock Syndrome (*Staphylococcus aureus*)(7855)	1	0	0	0	0	0
Trichinosis (124)	0	0	0	0	0	0
Tuberculosis *(010-018)*	193	185	216	208	238	228
Tularemia *(021)*	2	1	2	1	1	1
Typhoid Fever *(0020)*	18	26	22	27	19	26
Vibrio Cholerae (non O1, non O139) *(0019)*	3	3	2	7	3	2
Vibrio Parahaemolyticus (0054)	13	6	16	27	5	3
West Nile Virus Asymptomatic Infections *(0663.2)*	0	0	0	0	0	0
West Nile Virus Neurological Syndrome *(0663)*	4	4	0	0	1	2
West Nile Virus Non-Neurological Syndrome *(0663.1)*	5	17	0	0	4	5
Yersiniosis *(0091)*	26	38	42	52	56	53
Zika virus (777.1)	0	1	0	1	43	7

Sources: Communicable Disease Reporting System (CDRS), Communicable Disease & Outbreak Management (CDOM), and Provincial Surveillance Initiative (PSI)

Note: Red colour indicates communicable diseases requiring notification by the fastest means possible. Year is based on date of diagnosis. Data are updated on an annual basis, and numbers may differ from previous publications due to improvements in data cleaning

*All newly diagnosed chronic carriers became reportable in 2008.

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References

1. Alberta Health's Interactive Health Data Application (IHDA). http://www.ahw.gov.ab.ca/IHDA_Retrieval/

2. Measles & Rubella Weekly Monitoring Report - Week 52, 2017: December 24 to December 30, 2017. https://www.canada.ca/en/public-health/services/publications/diseases-conditions/measles-rubella-surveillance/2017/week52-december-24-december-30-2017.html

3. Alberta Health Services. Mumps. (2017). https://www.albertahealthservices.ca/info/page15190.aspx

4. Alberta Health Services. Pertussis Outbreak. (2017). https://www.albertahealthservices.ca/info/page15430.aspx

5. Business Plan 2017-2020 Health. http://finance.alberta.ca/publications/budget/budget2017/health.pdf

Other Alberta publications

- Annual STI Summary
  http://www.health.alberta.ca/newsroom/pub-health-statistics.html

- Annual Tick Surveillance report
  http://www.health.alberta.ca/newsroom/pub-disease-injury.html

- Annual and weekly Influenza Surveillance reports
  http://www.health.alberta.ca/professionals/influenza-evidence.html

- Historical trends of selected notifiable communicable diseases in Alberta, 1919 to 2014
  http://www.health.alberta.ca/newsroom/pub-health-statistics.htm

- Alberta Notifiable Disease Report (NDR) Manual, 9th edition (2018).
  https://open.alberta.ca/dataset/43769dee-7d57-4d9a-b863-7be03e7f6f00/resource/e84919a3-3df5-4cd8-9568-f1f44bd411a3/download/ND-Report-Manual-2018.pdf

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